

Application No. 09/515,158  
Amendment dated November 22, 2004  
Reply to Office Action dated August 24, 2004

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims

- 1           1.       (Currently Amended) A computerized method for determining computer  
2 hardware requirements for a yet-to-be built database management system server using user  
3 defined workload requirements, the method comprising the steps of:  
4           obtaining at least one user defined workload requirement from a user, the user defined  
5 workload requirement includes a plurality of inputs from a user including a maximum desired  
6 processor utilization, and a transaction[[s]] rate ~~per second~~ requirement;  
7           determining the database management system server hardware requirements for the yet-  
8 to-be built database management system server as a function of said user defined workload  
9 requirement; and  
10          outputting said yet-to-be built database management system server requirements.
- 1           2.       (Canceled).
- 1           3.       (Currently Amended) A computerized method for determining computer  
2 hardware requirements for a yet-to-be built database management system server using user  
3 defined workload requirements, the method comprising the steps of:  
4           obtaining at least one user defined workload requirement from a user, wherein the at least  
5 one user defined workload requirement includes a transaction rate requirement;

Application No. 09/515,158  
Amendment dated November 22, 2004  
Reply to Office Action dated August 24, 2004

6 determining the database management system server hardware requirements for the yet-  
7 to-be built database management system server as a function of said at least one user defined  
8 workload requirement; and

9 outputting said yet-to-be built database management system server requirements, wherein  
10 said database management system server requirements include a number of processors  
11 requirement, a memory size requirement, and a mass storage requirement for the yet-to-be built  
12 database management system server.

1 4. (Currently Amended) A computerized method for determining computer  
2 hardware requirements for a yet-to-be built database management system server using user  
3 defined workload requirements, the method comprising the steps of:

4 obtaining at least one user defined workload requirement from a user, wherein the at least  
5 one user defined workload requirement includes a transaction rate requirement;

6 determining the database management system server hardware requirements for the yet-  
7 to-be built database management system server as a function of said user defined workload  
8 requirement; and

9 outputting said yet-to-be built database management system server requirements, wherein  
10 said database management system server requirements include an expected effective CPU  
11 utilization for the yet-to-be built database management system server based on the user defined  
12 workload requirements.

1 5. (Currently Amended) A computerized method for determining computer  
3 of 14

Application No. 09/515,158  
Amendment dated November 22, 2004  
Reply to Office Action dated August 24, 2004

2 hardware requirements for a yet-to-be built database management system server using user  
3 defined workload requirements, the method comprising the steps of:  
4 obtaining at least one user defined workload requirement from a user;  
5 determining the database management system server hardware requirements for the yet-  
6 to-be built database management system server as a function of said user defined workload  
7 requirement; and  
8 outputting said yet-to-be built database management system server requirements, wherein  
9 said database management system server requirements include an expected number of users that  
10 can be supported by the yet-to-be built database management system server based on the user  
11 defined workload requirements.

1 6. (Previously Presented) A method according to claim 5, wherein said  
2 database management system server requirements includes an expected effective CPU utilization  
3 of the yet-to-be built database management system server based on the user defined workload  
4 requirements.

1 7. (Currently Amended) A computerized method for determining computer  
2 hardware requirements for a yet-to-be built database management system server using user  
3 defined workload requirements, the method comprising the steps of:  
4 obtaining at least one user defined workload requirement;  
5 determining the database management system server hardware requirements for the yet-  
6 to-be built database management system server as a function of said user defined workload

Application No. 09/515,158  
Amendment dated November 22, 2004  
Reply to Office Action dated August 24, 2004

7 requirement; and  
8 outputting said yet-to-be built database management system server requirements,  
9 wherein said user defined workload requirement includes a baseline system transactions  
10 per second, and said output includes a calculated transactions per second value, and a ratio of  
11 said calculated transactions per second to said baseline transactions per second, and wherein said  
12 determining step determines values for said calculated transactions per second and said  
13 transactions per second ratio.

1 8. (Currently Amended) A computerized method for determining computer  
2 hardware requirements for a yet-to-be-built database management system server using a user-  
3 defined workload, the method comprising the steps of:  
4 obtaining from a user a plurality of transaction definitions, wherein each of said  
5 transactions definitions have a transaction workload contribution and an expected execution rate  
6 per second;  
7 calculating a total expected workload as a function of said transaction definitions; and  
8 outputting said total workload to said human user.

1 9. (Currently Amended) A computerized method according to claim 16, further  
2 comprising the step of obtaining a server type from said user.

1 10. (Currently Amended) A computerized method according to claim 16, further  
2 comprising the step of obtaining a maximum desired processor utilization.

1           11.    (Currently Amended) A computerized method according to claim 16, further  
2   comprising the step of obtaining a maximum desired network interface card utilization.

1           12.    (Currently Amended) A computerized method according to claim 16, further  
2   comprising the step of obtaining a server type, a LAN speed, a maximum desired processor  
3   utilization, and a maximum desired network interface card utilization.

1           13.    (Currently Amended) A computerized method according to claim 16, wherein at  
2   least some of said transaction definitions include at least one SQL statement wherein each of said  
3   transaction workloads is calculated by calculating a workload contribution of each of said SQL  
4   statements.

1           14.    (Currently Amended) A computerized method according to claim 13, wherein  
2   said SQL statements include insert, delete, update, and/or select SQL statement types.

1           15.    (Currently Amended) A computerized method according to claim 14, wherein  
2   said insert SQL types have parameters including a number of identical insert statements,  
3   and wherein said insert statement SQL workload contribution is a function of said statement  
4   parameters,

5           said delete SQL types have parameters including a number identical delete statements,  
6   and wherein said delete statement SQL workload contribution is a function of said statement  
7   parameters,

Application No. 09/515,158  
Amendment dated November 22, 2004  
Reply to Office Action dated August 24, 2004

8           said update SQL types have parameters including a number of records to be operated on  
9    by said update statement, and wherein said update statement SQL workload contribution is a  
10   function of said statement parameters, and  
11           said select SQL types have parameters including selectivity criteria, and wherein said  
12   select statement SQL workload contribution is a function of said statement parameters.

1           16.   (Currently Amended) A computerized method for determining computer  
2   hardware requirements for a yet-to-be-built database management system server using a user-  
3   defined workload, the method comprising the steps of:  
4           obtaining from a user a plurality of transaction definitions, wherein each of said  
5   transaction definitions have a transaction workload contribution and an expected execution rate  
6   per second;  
7           determining a total expected workload as a function of said transaction definitions; and  
8           determining the database management system server hardware requirements for the yet-  
9   to-be built database management system server as a function of said total expected workload.

1           17.   (Currently Amended) A computerized method according to claim 16 wherein the  
2   database management system server hardware requirements includes a processor type for the yet-  
3   to-be built database management system server.

1           18.   (Currently Amended) A computerized method according to claim 16 wherein the  
2   database management system server hardware requirements includes a number of processors for  
7 of 14

Application No. 09/515,158  
Amendment dated November 22, 2004  
Reply to Office Action dated August 24, 2004

3 the yet-to-be built database management system server.

1 19. (Currently Amended) A computerized method according to claim 16 wherein the  
2 database management system server hardware requirements includes I/O requirements for the  
3 yet-to-be built database management system server.

1 20. (Currently Amended) A computerized method according to claim 16 wherein the  
2 database management system server hardware requirements includes memory requirements for  
3 the yet-to-be built database management system server.

1 21. (Previously Presented) Computer executable code stored on machine  
2 readable media for determining computer hardware requirements for a yet-to-be-built database  
3 management system server using a user-defined workload, the computer executable code  
4 performing the steps of:  
5 obtaining from a user a plurality of transaction definitions, wherein each of said  
6 transaction definitions have a transaction workload contribution and an expected execution rate  
7 per second;  
8 determining a total expected workload as a function of said transaction definitions; and  
9 determining the database management system server hardware requirements for the yet-  
10 to-be built database management system server as a function of said total expected workload.